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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/088,139	12/17/2002	Anne Eckert	ST99042USPCT	1457
	10/088,139 12/17/2002 Anne Eckert	EXAMINER		
SANOFI-AVE	NTIS U.S. LLC	HAMA, JOANNE		
MAIL CODE: D303A			ART UNIT	PAPER NUMBER
			1632	
			NOTIFICATION DATE	DELIVERY MODE
			06/18/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USPatent.E-Filing@sanofi-aventis.com andrea.ryan@sanofi-aventis.com

	Application No.	Applicant(s)		
	10/088,139	ECKERT ET AL.		
Office Action Summary	Examiner	Art Unit		
	JOANNE HAMA	1632		
The MAILING DATE of this communication appeariod for Reply	ppears on the cover sheet with the	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR of after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statution, reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be tind will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDON	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).		
Status				
1) ☐ Responsive to communication(s) filed on 19 2a) ☐ This action is FINAL . 2b) ☐ Th 3) ☐ Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matters, pr			
Disposition of Claims				
4) ☐ Claim(s) 1-25 is/are pending in the application 4a) Of the above claim(s) is/are withdr 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-25 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and application Papers	rawn from consideration.			
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) according a contract that any objection to the Replacement drawing sheet(s) including the corresponding to the corresponding	ccepted or b) objected to by the drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).		
11)☐ The oath or declaration is objected to by the B				
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other:	Date		

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In view of the appeal brief filed on March 19, 2009, PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

(1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,

(2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

/Peter Paras, Jr./
Supervisory Patent Examiner, Art Unit 1632

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DETAILED ACTION

Claims 1-25, drawn to a transgenic non-human mammal comprising a multimutated form of presentiin 1 (PS1), a method for detecting compounds for treating neurodegenerative diseases, comprising using the non-human mammal, are under consideration.

Withdrawn Rejections

35 USC § 101

Upon further consideration and in view of the teachings of the prior art made of record, that making multimutated presentilin 1 (PS1) non-human mammals are obvious, see below, the rejection is hereby withdrawn.

Applicant's arguments with respect to claims 1-25 have been considered but are moot in view of the new ground(s) of rejection.

35 USC § 112, 1st parag., Enablement

Upon further consideration and in view of the teachings of the prior art made of record, that making multimutated presentilin 1 (PS1) non-human mammals are obvious, see below, the rejection is hereby <u>withdrawn</u>.

Applicant's arguments with respect to claims 1-25 have been considered but are moot in view of the new ground(s) of rejection.

New Rejection

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-25 are <u>newly rejected</u> under 35 U.S.C. 103(a) as being unpatentable over Citron et al., 1998, Neurobiology of Diseases, 5: 107-116 in view of St. George-Hyslop et al., US Patent 6,395,960, patented May 28, 2002, Ishii et al., 1997, Neuroscience Letters, 228: 17-20, Borchelt et al., 1997, Neuron, 19: 939-945, and Xia et al., 1997, The Journal of Biological Chemistry, 272: 7977-7982.

Citron et al. teach that Abeta42 is elevated in conditioned media of cells expressing mutant but not wild type presenilin 1 (PS1). Further, the effects of two different PS1 mutations are additive when engineered into the same PS1 molecule (Citron et al., abstract). Citron et al. teach that kidney cells were stably transfected with APP695 and a PS1 double mutant and that these cells had higher levels of Abeta42 than cells that have single mutations in PS1 (Citron et al. page 111, 2nd col., under Abeta42 Effects of the PS1 Mutations M146L and L286V Are Additive). Given this teaching, Citron et al. teach that presenilin mutations have a systemwide effect of Abeta42 production and can therefore be studied in a peripheral cell line (Citron et al., page 112, 1st col. under Discussion). Citron et al. also teach that cells that predominantly make the Abeta42 protein will be useful for localizing the subcellular sites of Abeta42 production and understanding the way in which mutant presenilin alters APP

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proteolysis. By additional manipulations, it would be possible to generate cell lines and transgenic animals which would produce almost exclusively Abeta42 (Citron et al. page 115, 1st col., 1st parag.).

While Citron et al. do not specifically teach that transgenic mice comprising multiple mutations in PS1 exhibit apoptosis in their peripheral cells, this would be an inherent characteristic of these transgenic mice. Where, as here, the claimed and prior art products are identical or substantially identical, or are produced by identical or substantially identical processes, the PTO can require an applicant to prove that the prior art products do not necessarily or inherently possess the characteristics of his claimed product. See In re Ludtke 441 F.2d 660, 169 USPQ 563 (CCPA 1971). Whether the rejection is based on "inherency" under 35 USC 102, or "prima facie obviousness" under 35 USC 103, jointly or alternatively, the burden of proof is the same, and its fairness is evidenced by the PTO's inability to manufacture products or to obtain and compare prior art products. In re Best, Bolton, and Shaw, 195 USPQ 430, 433 (CCPA 1977) citing In re Brown, 59 CCPA 1036, 459 F.2d 531, 173 USPQ 685 (1972). It is noted, that the art at the time of filing teaches that peripheral cells that express mutant PS1 exhibit apoptosis (St. George-Hyslop et al., col. 20, 3rd parag.).

With regard to the claims being drawn to PS1 comprising at least 3 mutations or 5 particular mutations (e.g. claims 4, 5), these are known mutations in PS1 and given that Citron et al. teach that it would be ideal to make a transgenic mouse that produces almost exclusively Abeta42, an artisan would have made mice comprising additional mutations in PS1, to arrive at mice that produce more Abeta42 than the double mutant

PS1 mouse made by Citron et al. It is noted that Ishii et al. teach the H163R mutation (Ishii et al., abstract), Borchelt et al. teach the A246E mutation (Borchelt et al., abstract), and Xia et al. teach the C41Y mutation (Xia et al., abstract) and that in each of these publications, these mutations lead to an increase in Abeta42. It is noted that Abeta42 is the amyloid species found in early-onset familial Alzheimer's disease (FAD) patients.

Thus, the claims are rejected.

Conclusion

No claims allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joanne Hama, Ph.D. whose telephone number is 571-272-2911. The examiner can normally be reached Mondays, Tuesdays, Thursdays, and Fridays from 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Paras, can be reached on 571-272-4517. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight

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(EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public. For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

/Joanne Hama/ Primary Examiner Art Unit 1632